504577897 10/03/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4624608

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|--|----------------|
| TOYOTA MOTOR ENGINEERING & MANUFACTURING NORTH AMERICA, INC. | 09/20/2017 |

RECEIVING PARTY DATA

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| Postal Code: | 471-8571 | | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|----------------|---------|
| Patent Number: | 9778654 |

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|-------------------------|------------------|
| NAME OF SUBMITTER: | KETAN S. VAKIL |
| SIGNATURE: | /Ketan S. Vakil/ |
| DATE SIGNED: | 10/03/2017 |

Total Attachments: 1

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PATENT 504577897 REEL: 043769 FRAME: 0824

ASSIGNMENT

WHEREAS, Toyota Motor Engineering & Manufacturing North America, Inc., a Corporation organized and pursuant to the laws of Kentucky, having its principal place of business at 25 Atlantic Avenue, Erlanger, Kentucky 41018 (hereinafter referred to as Assignor), is the sole and exclusive owner, by assignment, of the Letters Patent listed in Schedule A; and

WHEREAS, Toyota Jidosha Kabushiki Kaisha, a Corporation organized under and pursuant to the laws of Japan, having its principal place of business at 1 Toyota-cho, Toyota-shi, Aichi-ken, 471-8571 Japan (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title, and interest in, to and under said Letters Patent and the invention covered thereby;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the said Assignor has sold, assigned, transferred and set over, and does hereby sell, assign, transfer, and set over to the said Assignee, the entire right, title, and interest for the United States of America and all other countries in and to said Letters Patent listed on Schedule A. The same to be held and enjoyed by the same Assignee, for its own use and enjoyment of its successors, assigns, and other legal representatives, to the end of the term or terms for which Letters Patent of the United States and all other countries listed on the attached Schedule A are granted or reissued or reexamined as fully and entirely as the same would have been held and enjoyed by the said Assignor, if this assignment and sale had not been made, together with all claims for damages by reason of past infringement of Letters Patent listed on Schedule A, with the right to sue for, and collect the same for its own use and behoof, and for the use and behoof of its successors, assigns, or other legal representatives.

SCHEDULE A

| Patent Number | Date of Patent | Inventors | Title | Country |
|------------------|------------------|----------------|--------------------------------------|---------|
| 9,778,654 | October 03, 2017 | Yuichi Ochiai | Systems and Methods | USA |
| | | Katsumi Nagata | for Advanced Resting Time Suggestion | |
| | | Akira Sasaki | | |

Data

Signature:

Frederick W. Mau, II

4811-3020-4496

PATENT REEL: 043769 FRAME: 0825